

**REFERENCE:**

Replacing blower motor assembly.

**TYPE OF ACTION REQUIRED: *REACTIVE***

Perform the actions outlined in this bulletin when replacing a blower motor assembly or blower wheel.

**DISTRIBUTION:**

Field support personnel.

**APPLICATION:**

All NGO/Sota, i3, i5, and HhC 2020 model ovens.

**PROBLEM:**

- Rusted or degraded blower wheels.
- Noisy blower motor due to rusted wheel imbalance and bearing failure.

**SOLUTION:**

Change affected blower motor assembly (pages 1-2). As an alternate solution, the blower wheel may be changed (page 3) instead of replacing the entire motor assembly.

**CHANGING THE BLOWER MOTOR ASSEMBLY:****PARTS REQUIRED (as needed per application):**

i3-3209-3 - Service Kit, i3 and i1, Blower Motor, Top, Stainless

i3-3209-4 - Service Kit, i3 And i1, Blower Motor, Bottom, Stainless

i5-3218-3 - Service Kit, i5, Blower Motor, Top, Stainless

i5-3218-4 - Service Kit, i5, Blower Motor, Bottom, Stainless

HCT-3022 - Service Kit, HhC 2020, Blower Motor

#2 Phillips Screwdriver

T-15 Torx Security Screwdriver

7/16" Socket and Wrench

**ACTION REQUIRED:**

 **CAUTION:** Ensure that the oven is off and has finished cooling down.

1. Disconnect power from the oven.
2. Remove the outer shell/panel/end bell to gain access to the electrical compartment (see page 2).
3. Disconnect the blower motor assembly from the blower motor speed controller.

- INSTRUCTIONS CONTINUED ON NEXT PAGE -

|                                     |         |
|-------------------------------------|---------|
| <input type="checkbox"/>            | NGC     |
| <input type="checkbox"/>            | C3      |
| <input checked="" type="checkbox"/> | i3      |
| <input checked="" type="checkbox"/> | i5      |
| <input checked="" type="checkbox"/> | NGO     |
| <input type="checkbox"/>            | HHB     |
| <input type="checkbox"/>            | Encore  |
| <input type="checkbox"/>            | HHC3240 |
| <input checked="" type="checkbox"/> | HHC2020 |
| <input type="checkbox"/>            | TDO     |
| <input type="checkbox"/>            | TDO2    |
| <input type="checkbox"/>            | TSO     |

4. Remove the blower motor assembly from the oven (see figures 1 through 5).

NOTE: For more information on removing the blower motor assembly, please see the applicable service manual.

5. Clean inside the blower cavity, removing any debris.
6. Install the new blower motor assembly.
7. Connect the new blower motor assembly wiring to the blower motor speed controller.
8. Reconnect power to the oven and verify operation.
9. Reinstall the outer shell/panel/end bell and return the oven to service.

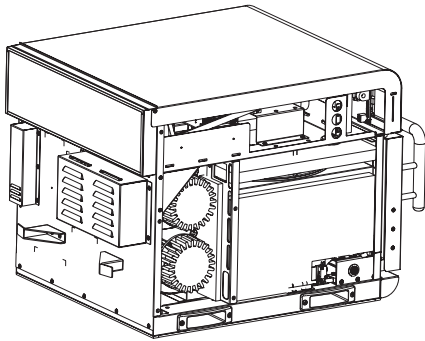


Figure 1: i3 Blower Motor Access

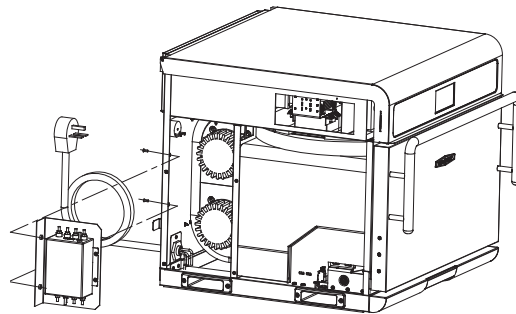


Figure 2: i5 Blower Motor Access

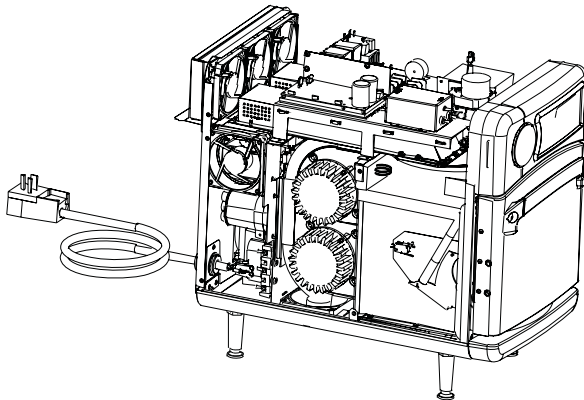


Figure 3: NGO/Sota Blower Motor Access

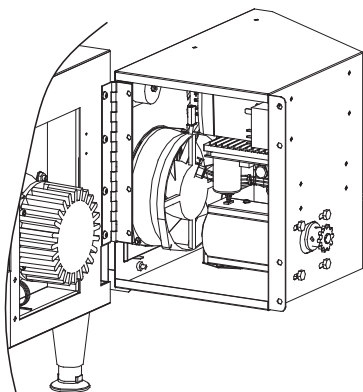


Figure 4: HhC 2020 Right End Bell Blower Motor Access

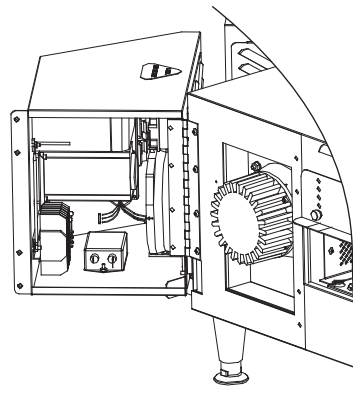


Figure 5: HhC 2020 Left End Bell Blower Motor Access

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|                                     |         |
|-------------------------------------|---------|
| <input type="checkbox"/>            | NGC     |
| <input type="checkbox"/>            | C3      |
| <input checked="" type="checkbox"/> | i3      |
| <input checked="" type="checkbox"/> | i5      |
| <input checked="" type="checkbox"/> | NGO     |
| <input type="checkbox"/>            | HHB     |
| <input type="checkbox"/>            | Encore  |
| <input type="checkbox"/>            | HHC3240 |
| <input checked="" type="checkbox"/> | HHC2020 |
| <input type="checkbox"/>            | TDO     |
| <input type="checkbox"/>            | TDO2    |
| <input type="checkbox"/>            | TSO     |

## ALTERNATE SOLUTION - CHANGING THE BLOWER WHEEL:

### PARTS REQUIRED (as needed per application):

103491 - Fan Wheel, CCW, 304 Stainless

103492 - Fan Wheel, CW, 304 Stainless

#2 Phillips Screwdriver

T-15 Torx Security Screwdriver

7/16" Socket and Wrench

3mm Allen Hex Head Key Wrench

Gear Pulley

Ruler

### ACTION REQUIRED:

NOTE: Only replace the blower wheel if the motor shaft and bearing are still functional.

**⚠ CAUTION:** Ensure that the oven is off and has finished cooling down.

1. Disconnect power from the oven.
2. Remove the outer shell/panel/end bell to gain access to the electrical compartment.
3. Disconnect the blower motor assembly from the blower motor speed controller.
4. Remove the blower motor assembly from the oven (see figures 1 through 5, page 2).

NOTE: For more information on removing the blower motor assembly, please see the applicable service manual.

5. Lubricate the blower wheel set screw with penetrating oil and let set for three minutes.
6. Carefully apply the gear pulley to the motor shaft and blower wheel and remove the wheel from the motor shaft.
7. Clean the motor shaft and remove any debris from the motor mounting plate.
8. Install the blower wheel to the dimensions specified in Figure 6.
9. Clean inside the blower cavity, removing any debris.
10. Install the blower motor assembly.
11. Connect the blower motor assembly wiring to the blower motor speed controller.
12. Reconnect power to the oven and verify operation.
13. Reinstall the outer shell/panel/end bell and return the oven to service.

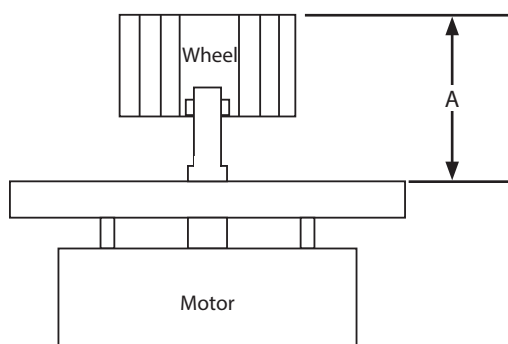


Figure 6: Blower Wheel Assembly

| Dimension A |        |        |          |          |
|-------------|--------|--------|----------|----------|
|             | i3     | i5     | NGO/Sota | HhC 2020 |
| A (inches)  | 2.365" | 2.730" | 2.365"   | 2.678"   |
| A (mm)      | 60 mm  | 69 mm  | 60 mm    | 68 mm    |

|                                     |         |
|-------------------------------------|---------|
| <input type="checkbox"/>            | NGC     |
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| <input checked="" type="checkbox"/> | NGO     |
| <input type="checkbox"/>            | HHB     |
| <input type="checkbox"/>            | Encore  |
| <input type="checkbox"/>            | HHC3240 |
| <input checked="" type="checkbox"/> | HHC2020 |
| <input type="checkbox"/>            | TDO     |
| <input type="checkbox"/>            | TDO2    |
| <input type="checkbox"/>            | TSO     |

- END OF PROCEDURE -